



*Office of Management,
Office of Engineering and
Construction Management*

FUTURE FIMS

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Objectives

- Maintain ability to support daily facilities management decisions
- Accommodate new data requirements
- Update underlying code and hardware platforms
- Develop next generation system



Near Term

- Time horizon – three months
- **Obtain FIMS funding**
- Annual reporting requirements
 - Housekeeping
 - Issue reporting guidance
- **Support sustainability data requirements**



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Sustainability Data Fields

- Secretary's cool roof memo
 - Directs addition of cool roof data to FIMS
- Provide visibility of real property “in the pipeline”
 - Need to know what we will have in 2015/2020
- **Additional data fields as necessary**



The Secretary of Energy
Washington, DC 20585

June 1, 2010

MEMORANDUM FOR HEADS OF DEPARTMENTAL ELEMENTS

FROM:

STEVEN CHU

SUBJECT:

Installation of Cool Roofs on Department of Energy Buildings

The Federal Government is the largest consumer of energy in the Nation. In Executive Order (E.O.) 13514, the President called on the Federal Government to set the example for the Nation on sustainability. As I wrote you in my March 31, 2010 memorandum implementing the E.O., the Department of Energy must set the example in energy and greenhouse gas (GHG) stewardship for the rest of Government.

Energy efficiency is one of the lowest cost options for reducing GHG emissions. Buildings account for 40 percent of U.S. energy use – and about 35 percent of the Nation's GHGs. An effective method for reducing building energy use is installation of a cool roof¹, which reflects sunlight and reduces heat gain. By reducing heat gain, a cool roof lowers the need for air-conditioning and saves energy. Yet, cool roofs do even more. In an urban or campus setting, they reduce the “heat island effect,” lowering ambient air temperature and improving air quality.

Because cool roofs provide significant energy savings and environmental benefits, they should be used whenever practicable. Accordingly, effective immediately, unless determined uneconomical by a life-cycle cost analysis, roof replacements and roofs for new construction shall be cool roofs (unless the project already has CD-2 approval). Moreover, to enhance overall building thermal performance, new roofs shall have a thermal resistance of at least R-30.² I have directed the Office of Management to add appropriate data elements to the Facilities Information Management System to track the Department's performance in this area and the Federal Energy Management Program to codify this direction within the update of DOE Order 430.28 “Departmental Energy, Renewable Energy and Transportation Management.”



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Proposed Cool Roof Screen

FIMS		Property	Administration	Reports	
		Building	OSF	Land	Trailer
Cool Roof	Property (ID - Name) 32 - Central Guard Post	Owned/ Ingrant DOE Owned	<input type="button" value="Save"/> <input type="button" value="Delete Prop"/>		
Property Info	<div><p>Roof Size (GSF): <input type="text"/></p><p>Roof Type: <input type="text"/> (will be a picklist of pre-defined options)</p><p>Date of Roof Installation/Replacement: <input type="text"/> (mm/yyyy)</p><p>Cool Roof Installation</p><p>Cool Roof Installation Has Been Planned: <input type="text"/> (Yes/No)</p><p>Planned Installation Date: <input type="text"/> (mm/yyyy)</p><p><input type="checkbox"/> Not Economically Feasible to Install</p></div>				
Property Detail					
Location					
Building Info					
Occupants					
Dimensions					
RPV					
Cap Adjust					
Condition					
Sustainability					
Cool Roof					
Maint History					
Notes					
Outgrant					
Disposition					
Photo Library					
Archive					
Maintenance					
<input type="button" value="Back"/> <input type="button" value="Next"/>					



Intermediate Term

- Time horizon – 12 months
- Update underlying code
 - FIMS is built on outdated technology
 - Update to Java based application
 - Hiring Java developer to perform coding (minimize impact on FIMS technical support)
 - Procure new application server
- Transition to new contract
 - Expiration of current contract is April



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Long Term

- Five to ten years
- Develop next generation system
- What are the broad brush attributes we would like?
- Think out of the box
- “Google Earth” like interface??
- Need your input to develop major attribute list



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Future FIMS

Questions?



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University of Cincinnati

- Heavyweight research university
- Named a Green University by Princeton Review (only institution in Ohio)
- Environmental Engineering program rated 6th in US
- Biological Sciences program rated 2nd in US
- Albert Sabin developed the polio vaccine as a faculty member
- Neil Armstrong professor of Aerospace Engineering 1971 to 1979



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Sander Hall – R.I.P.

27 Story Sanders Hall Implosion.flv